

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of the Claims

1. (currently amended) Video apparatus comprising
an input switching matrix, to which at least one video input is coupled, the video input comprising a terminal for a component video signal and a CVBS terminal (Video) or a S-VHS terminal,
a synchronization signal detector coupled to a luminance output of the input switching matrix,
a color decoder coupled to the luminance output and to a chrominance output of the input switching matrix,
an output switching matrix coupled to the input switching matrix and to the color decoder, and
a microcontroller coupled to the input switching matrix and to the synchronization signal detector for controlling the input switching matrix,
~~characterized in that~~ wherein the detection of the component video signal is made automatic by means of the microcontroller, which, after selecting a Y video input, sets the input switching matrix to pass a signal from the terminal for the component video signal of said video input to the synchronization signal detector, and, in case this terminal provides a valid luminance signal, then a component video signal is recognized, which is switched through then by the output switching matrix, and, in case no valid luminance signal is available at the component video terminal, then the microcontroller switches the input switching matrix to the CVBS terminal or a S-VHS terminal of said video input, respectively, for checking for a valid synchronization signal by means of the synchronization signal detector.
2. (currently amended) Video apparatus according to Claim 1, ~~characterized in that the video apparatus comprises~~ further comprising at least a first and a second video input, that at least the first video input comprises terminals for a component video signal, for a CVBS video signal and for a S-VHS video signal, and that after selecting the first video input, the microcontroller checks first for a

component video signal, then for a S-VHS video signal, and then for a CVBS video signal.

3. (currently amended) Method for automatic detection of a ~~component video signal within a video apparatus having a video input with a terminal for a component video signal, an input switching matrix, a microcontroller, and a synchronization signal detector, the method comprising the subsequent steps of:~~

a) selecting a component video signal;

b) switching said component video signal to an output if a valid luminance signal exists at said component video input;

c) selecting a CVBS input signal or an S-VHS input signal if a valid luminance signal does not exist at said component video input; and

d) switching said CVBS signal or said S-VHS signal to an output if a valid luminance signal exists at respective said CVBS input or said S-VHS input.

~~a) after selecting the video input, the microcontroller sets the input switching matrix to pass a Y signal from the terminal for the component video signal to the synchronization signal detector;~~

~~b) the microcontroller waits for a specified period of time for a signal to settle;~~

~~c) the microcontroller accesses the synchronization signal detector to get a feedback on the validity and stability of a luminance signal;~~

~~d) if a valid luminance signal is present, then the component video input is valid and the respective component video signal is switched through then by an output switching matrix;~~

~~e) in case no valid luminance signal is available at the component video terminal, then the microcontroller switches the input switching matrix to a CVBS terminal or a S-VHS terminal of the video input, to check for a valid synchronization signal by means of the synchronization signal detector.~~

4. (cancelled)